**Background Information:**

Some of the planet’s ecosystems are endangered! The World Wildlife Fund (WWF) needs help creating conservation plans to protect these ecosystems and the biodiversity they contain.

You will demonstrate your knowledge of ecology by gathering data (from textbook, websites and books) and creating an informative webpage on the EMS wiki: EcoCheetah. Your project will include different types of information as explained below.

Your project should be 1) creative, 2) colorful, 3) include all of the required parts, and 4) show what you know about ecology. **All words need to be your own, do not cut and paste anything from the Internet.**

You will be assigned one of the following issues to research:

1. ***Coral Bleaching in Coral Reef Ecosystems***
2. ***Prairie Dogs and Their Niche in Prairie Ecosystems***
3. ***Wetlands Degradation in Coastal regions of the Southern US***
4. ***Overfishing of Bluefin Tuna in the Mediterranean and Atlantic Oceans***
5. ***Deforestation of tropical rainforests***
6. ***Natural gas drilling on Colorado’s Roan Plateau***
7. ***Hawaii’s Coqui Tree Frog invasion***
8. ***Endangered Orangutans in the forests of Borneo and Sumatra***
9. ***Colorado Pine Beetle Kill***

The required parts are your wiki page are as follows:

* **Name of Ecosystem**
* **Short summary (using PhotoStory) of the issue you are researching**

❒ **Food Chain** – **Create an accurate food chain or web that exists in your ecosystem.**

❒ **Map – Include a map showing the location of your ecosystem.**

❒ **Pictures – Include at least 3 pictures that represent your ecosystem. Make sure you have a title for each picture and cite the original source. You may include one video and/or one audio clip that is less than 2 minutes in length but it is not required.**

❒ **List of Abiotic/Biotic Factors – Create a list of important abiotic and biotic factors that interact in your ecosystem. Include a minimum of 3 abiotic and 3 biotic factors.**

❒ **Threats to Ecosystem – In bullet form, describe the major threats to your ecosystem. Be sure to explain the causes or reasons behind these threats.**

* **Conservation Plan - In paragraph form, explain what might happen if the ecosystem or specific organisms are not protected, reasons why the ecosystem is important, what parts of the ecosystem are most affected and at least 2 ways you propose to protect the ecosystem.**

❒ **Bibliography – You must use at least 2 sources.**

|  |  |  |  |  |  |
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| Score | 4 | 3 | 2 | 1 | Score |
| **Creativity**  **PP** | The webpage is creative and interesting. Creativity extends beyond required components. | The webpage is creative and interesting. Creativity does not extend beyond required components. | Some parts of the webpage are creative and interesting. | webpage is not creative or interesting. |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Appearance** **PP** | All sections are well organized, colorful, use words and pictures, shows pride in work beyond usual effort. | All parts are well organized, and use words and pictures. | Webpage uses words and pictures. Poorly constructed. Little effort. | Webpage doesn’t use words and pictures. |  |

|  |  |  |  |  |  |
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|  |  |  |  | PP Total Score | /4 |
| **Mechanics**  **F** | All required components included. Excellent grammar and spelling. Well organized. | 1-2 components are missing. 3-4 grammar and spelling mistakes. Some organization. | 3-4 components are missing. 5-8 grammar and spelling mistakes. Limited organization. | More than 4 more components are missing. More than 8 grammar or spelling mistakes. No organization. |  |
| **Scientific Accuracy**  **F** | Project/plan is accurate and shows in-depth understanding of standards. | Project/plan is accurate and shows proficient  understanding of standards, | Project shows partially proficient understanding of standards. | Project shows limited understanding of standards. |  |
|  |  |  |  | F Total score | \4 |
|  |  |  |  | Summative Assessment Score | \4 |

**Name and short description of Ecosystem:**

**Food Web**

**Map - List source here:**

**Pictures – List titles and sources here:**

**1.**

**2.**

**3.**

**List of Abiotic/Biotic Factors**

|  |  |
| --- | --- |
| **Abiotic Factors** | **Biotic Factors** |
|  |  |
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**Threats to Ecosystem:**

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**Conservation Plan:**

**Notes:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Paragraph:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Bibliography:**

**1.**

**2.**

**Additional Sources:**